

PROJECT CHARGE: 1703
PROJECT TITLE: CIGARETTE MAKING TECHNOLOGY
PROJECT LEADER: A. Robinson
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FLAVORS ADSORPTION STUDIES (A. Robinson, V. P. Henderson)

Our contact-angle goniometer temperature stage and temperature controlled application syringe have been received. The initial results suggest that the adsorption and absorption behavior of casings and flavorants in tobacco is a function of the temperature of application. Work continues to define those optimum temperatures of application for casings and flavorants that would maximize their absorption into tobacco.

TOBACCO ADHESIVE STUDIES (T. E. Majewski)

A sucrose/calcium acetate composition has been identified that will reduce loose ends in the foamed rod injection process. Work is under way to modify the sucrose/calcium acetate composition chemically so that similar improvements in the cigarette rod firmness can be realized.

POLYPROPYLENE FILTERS ADHESIVES STUDIES (T. E. Majewski, A. Robinson, V. P. Henderson)

Work continues in characterizing the adhesives used for the production of FML polypropylene filter tow. Investigations are presently under way to validate the critical surface tension (γ_c) value previously obtained with a homologous series of methanol/water solutions in comparison to the literature value of methylene di-iodide/water solutions. The appropriate (γ_c) validation should allow us to make adhesive formulation recommendation changes to respective adhesive vendors.

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